

LISTING OF CLAIMS

The current listing of claims replaces all previous listings of the claims. Please amend the claims as indicated below.

1. (Currently Amended) A device for delivering a dose of radiation comprising:

a stent for insertion into a vessel of a body comprising a generally tubular structure having an inner diameter and an outer diameter; and

a ~~separate~~ foil sheet formed into a coil and located adjacent the stent without being attached to the stent, wherein the foil sheet comprises a radioactive material and said foil sheet is radially expandable by at least partially uncoiling said coil.

2. (Original) The device of claim 1, wherein the foil sheet is located adjacent the outer diameter of the stent.

3. (Original) The device of claim 2, wherein the stent and the foil sheet are radially expandable, such that radially expanding the stent causes the foil sheet to radially expand and contact the vessel.

4. (Original) The device of claim 1, wherein the radioactive material is palladium-103.

5. (Original) The device of claim 1, wherein the radioactive material is carrier free palladium-103.

6. (Original) The device of claim 1, wherein the foil sheet is a woven screen.

7. (Original) The device of claim 1, wherein the foil sheet further comprises a bioabsorbable material that can be absorbed into the body.

8. (Previously presented) The device of claim 1, wherein the foil sheet includes two sides, and the foil sheet has a titanium coating on at least one of the sides of the foil sheet.

9. (Original) The device of claim 1, wherein the foil sheet further comprises a dosage of a drug.

10. (Canceled)

11. (Currently amended) The device of claim ~~10~~5, wherein said ~~flexible-substrate~~foil sheet provides substantially no support to the area of the body to which it conforms when it is conformed to the area of the body in the treatment zone.

12. (Currently amended) The device of claim 11, wherein the ~~flexible-substrate~~foil sheet is an expandable device capable of expanding to provide a device of a predefined geometric shape which conforms to an area of the body in the treatment zone while permitting flow of fluids therethrough.

13-19. (Canceled)

20. (Currently amended) The device of claim ~~13~~12, wherein the foil sheet further comprises both said radioactive material and said drug.

21. (Currently amended) The device of claim ~~13~~12, wherein the foil sheet further comprises a mechanical attachment for securing the foil sheet in position in the treatment zone.

22. (Original) The device of claim 21, wherein the mechanical attachment is selected from the group consisting of adhesives and suturing.

23. (Currently amended) The device of claim ~~12~~13, further comprising a support which assists in conforming the foil sheet to an area of the body and maintaining the foil sheet in position in the treatment zone during treatment.

24. (Currently amended) The device of claim ~~13~~12, wherein the foil sheet is positioned in the treatment zone adjacent the outer diameter of a stent.

25. (Original) The device of claim 24, wherein the stent and the foil sheet are radially expandable, such that radially expanding the stent causes the foil sheet to radially expand and conform to an area of the body.

26. (Currently amended) A method for inserting a flexible substrate comprising a therapeutic amount of a material selected from the group consisting of a radioactive material and a drug, into a treatment zone in a human or animal body comprising the steps of:

associating the flexible substrate with a separate insertion device;

inserting the insertion device and the associated flexible substrate into a human or animal body without said flexible substrate being attached to the insertion device during insertion;

positioning the flexible substrate at a desired position within the treatment zone, relative to the separate insertion device; and

conforming the flexible substrate to an area of the body located within the treatment zone by radially expanding said separate insertion device; wherein the ~~step of conforming the flexible substrate to an area of the treatment zone is accomplished by an insertion device~~ is selected from the group consisting of an expandable catheter and a stent.

27. (Canceled)

28. (Previously presented) The method according to claim 26, wherein the flexible substrate is located adjacent the outer diameter of the expandable catheter or stent.

29. (Currently amended) The method according to claim 28, wherein the flexible substrate is radially expandable, such that radially expanding the expandable catheter or stent causes the flexible substrate to radially expand.

30. (Previously presented) The method according to claim 26, wherein the flexible substrate comprises a radioactive material and said radioactive material comprises palladium-103.

31. (Previously presented) The method according to claim 30, wherein the radioactive material comprises carrier-free palladium-103.

32. (Original) The method according to claim 26, wherein the flexible substrate comprises a material selected from the group consisting of a woven screen and a mesh.

33. (Original) The method according to claim 26, wherein the flexible substrate further comprises a bioabsorbable material that can be absorbed into the body.

34. (Original) The method according to claim 26, wherein the flexible substrate comprises two sides, and a titanium coating on at least one of the sides.

35. (Previously presented) The method according to claim 26, wherein said flexible substrate is a sleeve of an elastically deformable material which is expandable, and

wherein said step of conforming said foil sheet to an area of the body comprises a step of expanding an internal support for said flexible substrate to conform said foil sheet to an area of the body and to maintain said flexible substrate in position in the treatment zone.